

07-30-02

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PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Boot et al.

Serial No.: 10/046,671

Filed: January 14, 2002

For: MOSAIC INFECTIOUS BURSAL  
DISEASE VIRUS VACCINES

Confirmation No.: 9315

Examiner: To be assigned

Group Art Unit: 1642

Attorney Docket No.: 2183-5238US

## NOTICE OF EXPRESS MAILING

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## TRANSMITTAL OF FORMAL DRAWING

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Attached with the Response to Notice to Comply mailed July 25, 2002, were formal drawings. It has come to our attention that the formal drawings submitted with that response did not contain all pages of FIG. 2A. FIG. 2A is resubmitted herewith. All other drawings submitted on July 25, 2002, are believed to be complete.

Respectfully submitted,

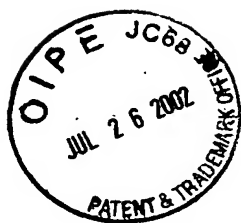
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TLW/bv





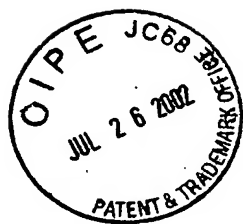
FIG. 2A (Contd.)

CONSENSUS:	ctactgcagg	ctagtgagtc	ggagtctcac	agtgagggtca	agcacactyc	ctggtggcgt	480
CEF94-A:	.....	.....	.....	.....	.....t.	.....	480
D6948-A:	.....	.....	.....	.....	.....C.	.....	480
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	ttatgcacta	aayggcacca	taaacgccgt	gaccttccaa	ggaagccctga	gtgaactgac	540
CEF94-A:	.....	..C.....	.....	.....	.....	.....	540
D6948-A:	.....	..t.....	.....	.....	.....	.....	540
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	agatgttagc	tacaatgggt	tgatgtctgc	aacagccaac	atcaacgaca	aaatygggaa	600
CEF94-A:	.....	.....	.....	.....	.....	...t....	600
D6948-A:	.....	.....	.....	.....	.....	...C....	600
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	cgtcctagta	ggggaagggt	tmaccgtctc	cagcttacc	acatcatatg	atcttgggta	660
CEF94-A:	.....	.....	..C.....	.....	.....	.....	660
D6948-A:	.....	.....	..a.....	.....	.....	.....	660
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	tgtgagrccty	ggtgacccca	ttccgcwat	agggctygac	ccaaaaatgg	tagcmacatg	720
CEF94-A:	.....g..t	.....	.....a..	.....t..	.....	...C....	720
D6948-A:	.....a..C	.....	.....t..	.....C..	.....	...a....	720
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	tgacagcagt	gacaggccca	gagtctacac	cataactgca	gccgatgatt	accaattctc	780
CEF94-A:	.....	.....	.....	.....	.....	.....	780
D6948-A:	.....	.....	.....	.....	.....	.....	780
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	atcacagtac	caascagggtg	gggtaacaat	cacactgttc	tcagcyaya	tygatgccat	840
CEF94-A:	.....	..C.....	.....	.....	....C.C.	..t....	840
D6948-A:	.....	..g.....	.....	.....	....t..t.	..C....	840
TY89-A:	-----	-----	-----	-----	-----	-----	



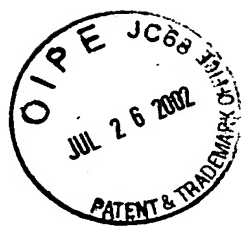
**FIG. 2A (Contd.)**

SENSUS: cacaagcctc agcrttyggg gagarctcgt gtttcaaaaca agcgtccamg gccttrtact	900
CEF94-A: . . . . . g.t . . . . . g . . . . . C . . . . . g . . . . .	900
D6948-A: . . . . . a.C . . . . . a . . . . . a . . . . . a . . . . .	900
TY89-A: -----	-----
SENSUS: ggygyacc atctacctya taggctttga tgggacwgcg gtaatcacca grgctgtggc	960
CEF94-A: . . C . C . . . . . C . . . . . a . . . . . g . . . . .	960
D6948-A: . . t . t . . . . . t . . . . . t . . . . . a . . . . .	960
TY89-A: -----	-----
SENSUS: cgcaracaat gggctracgr ccggcacyyga caacctttwg ccattcaatm ttgtgattcc	1020
CEF94-A: . . . a . . . . . g . . . . . C . . . . . t . . . . . a . . . . .	1020
D6948-A: . . . g . . . . . a . . . . . t . . . . . a . . . . . C . . . . .	1020
TY89-A: -----	-----
SENSUS: aacmarcgag ataaccaccg caatcacatc catcaaaactg gagatagtga cctccaaaag	1080
CEF94-A: . . . a .	1080
D6948-A: . . C . g .	1080
TY89-A: -----	-----
SENSUS: tgggtggtcag gcrggggatc agatgtcrtg gtcrgcaagw gggagcctag cagtgcagat	1140
CEF94-A: . . . . . . . . . . . a . . . . . g . . . . . a . . . . . . . . . . .	1140
D6948-A: . . . . . . . . . . . g . . . . . a . . . . . t . . . . . . . . . . .	1140
TY89-A: -----	-----
SENSUS: ccayggtggc aactatccag gggccctccg tcccgctcacr ctagtrgcct acgaaagagt	1200
CEF94-A: . . t .	1200
D6948-A: . . C .	1200
TY89-A: -----	-----
SENSUS: ggcaacagga tcygtcgtta cggtcgcygg ggtgagcaac ttcgagctga tcccaaatcc	1260
CEF94-A: . . . . . . . . . . . C . . . . . t .	1260
D6948-A: . . . . . . . . . . . t . . . . . C .	1260
TY89-A: -----	-----



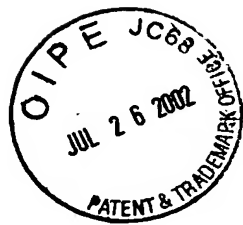
**FIG. 2A (Contd.)**

CONSENSUS:	tgaactagca	aagaacctgg	tyacagaata	cggccgattt	gacccaggag	ccatgaacta	1320
CEF94-A:	.....	.....t	.....	.....	.....	.....	1320
D6948-A:	.....	.....C	.....	.....	.....	.....	1320
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	cacaaaattg	atactgagt	agagggaccg	tcttggcatc	aagaccgtmt	ggccaacaag	1380
CEF94-A:	.....	.....	.....	.....	.....C	.....	1380
D6948-A:	.....	.....	.....	.....	.....a	.....	1380
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	ggagtacact	gactttcgyg	artacttcat	ggaggtggcc	gacctcaact	ctccccctgaa	1440
CEF94-A:	.....	.....t	.....a	.....	.....	.....	1440
D6948-A:	.....	.....C	.....g	.....	.....	.....	1440
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	gattgcagga	gcattyggct	tcaaagacat	aatccgggcc	mtaaggagga	tagctgtgcc	1500
CEF94-A:	.....	.....C	.....	.....	.....a	.....	1500
D6948-A:	.....	.....t	.....	.....	.....C	.....	1500
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	ggtggtctcy	acaytgttcc	caccygccgc	tcccctagcc	catgcaattg	gggaaggtgt	1560
CEF94-A:	.....C	...t	...t	.....	.....	.....	1560
D6948-A:	.....t	...C	...C	.....	.....	.....	1560
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	agactacctg	ctgggcgatg	aggcacaggc	tgcttcagga	actgctcgag	ccgcgtcagg	1620
CEF94-A:	.....	.....	.....	.....	.....	.....	1620
D6948-A:	.....	.....	.....	.....	.....	.....	1620
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	aaaagcaaga	gctgcctcag	gccgcataag	gcagctract	ctcgccgccc	acaaggggta	1680
CEF94-A:	.....	.....	.....	.....g	.....	.....	1680
D6948-A:	.....	.....	.....	.....a	.....	.....	1680
TY89-A:	-----	-----	-----	-----	-----	-----	



**FIG. 2A (Contd.)**

CONSENSUS:	cgaggtagtc	gcgaatctrt	tycaggtgcc	ccagaatccy	gtagtcgacg	ggattctygc	1740
CEF94-A:	.....	.....a.	.C.....	.....C	.....	.....t..	1740
D6948-A:	.....	.....g.	.t.....	.....t	.....	.....C..	1740
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	ttcacctggg	rtactccgcg	gygcacacaa	cctcgactgc	gtgttragag	agggtgccac	1800
CEF94-A:	.....	g.....	.t.....	.....	.....a....	.....	1800
D6948-A:	.....	a.....	.C.....	.....	.....g....	.....	1800
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	gctattccct	gtggtyatya	cgacagtggg	agaygccatg	acacccaaag	caytgaacag	1860
CEF94-A:	.....	.....t..t.	.....	..C.....	.....	..t.....	1860
D6948-A:	.....	.....C.C.	.....	..t.....	.....	..C.....	1860
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	caaaatgttt	gctgtcattg	aaggcgtgcg	agaagayctc	caacctccwt	ctcaaaagag	1920
CEF94-A:	.....	.....	.....	.....C..	.....t.	.....	1920
D6948-A:	.....	.....	.....	.....t..	.....a.	.....	1920
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	atccttcata	cgaactctct	cyggacayag	agtctatgga	tatgctccag	atgggggtact	1980
CEF94-A:	.....	.....	.t....C..	.....	.....	.....	1980
D6948-A:	.....	.....	.C....t..	.....	.....	.....	1980
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	tccactggag	actgggagag	aytacaccgt	kgtcccaata	gatgatgtct	gggacgacag	2040
CEF94-A:	.....	.....	.C.....	t.....	.....	.....	2040
D6948-A:	.....	.....	.t.....	g.....	.....	.....	2040
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	cattatgctg	tccaaagayc	ccatacctcc	tattgtggga	aacagyggaa	ayctagccat	2100
CEF94-A:	.....	.....t.	.....	.....	.....t....	..t.....	2100
D6948-A:	.....	.....C.	.....	.....	.....C....	..C.....	2100
TY89-A:	-----	-----	-----	-----	-----	-----	



**FIG. 2A (Contd.)**

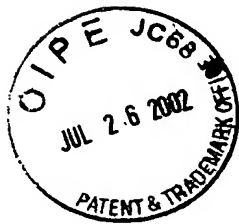
CONSENSUS:	agcttacatg	gatgtgttcc	gacccaaagt	cccmattccat	gtggcyatga	cgggagccct	2160
CEF94-A:	.....	.....	.....	..a.....	.....t...	.....	2160
D6948-A:	.....	.....	.....	..C.....	.....C...	.....	2160
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	caaygcytrt	ggcgagattg	agaamgtrag	ctttagaagc	accaagctcg	ccactgcaca	2220
CEF94-A:	..t..t.g.	.....	..a.a..	.....	.....	.....	2220
D6948-A:	..C..C.a.	.....	..C.g..	.....	.....	.....	2220
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	cggacttggc	ctyaagtgg	ctgggtcccg	wgcattygay	gtraaacacg	ggyccaactg	2280
CEF94-A:	.....	..t.....	.....	..a....C..t	..a.....	..C.....	2280
D6948-A:	.....	..C.....	.....	..t....t..C	..g.....	..t.....	2280
TY89-A:	-----	-----	-----	-----	-----	-----	
CONSENSUS:	ggcracgtty	atcaaacgtt	tycctcacia	tccmcgmga	tgggacaggy	tmccytacct	2340
CEF94-A:	..a.....C	.....	..C.....	..a.C...	.....C	..C..C....	2340
D6948-A:	..g.....t	.....	..t.....	..a.C...	.....C	..C..t....	2340
TY89-A:	-----	-----	..C.....	..C.a...	.....t	..a..C....	44
CONSENSUS:	caacctwccm	tayctyccac	cmamwgcwgg	acgycagtwc	sayctkgccm	tggchgchtc	2400
CEF94-A:	.....a..a	..C..t...	..C.at..a..	..C.....a.	..C..t...a	.....t..a..	2400
D6948-A:	.....t..a	..C..t...	..C.at..a..	..C.....a.	..g..C..g...a	.....C..t..	2400
TY89-A:	.....t..c	..t..c...	..a.ca..t..	..t....t.	..C..t..g...c	.....a..C..	104
CONSENSUS:	mgagttcaaa	gagaccccmg	aactcgarr	ygcygtsmgw	gcmatggamg	cwgccwgcmaa	2460
CEF94-A:	a.....	.....C.	.....gag	t..C..Ca.a	..a.....a.	..a..a..C..	2460
D6948-A:	a.....	.....C.	.....gag	c..C..Ca.a	..C.....a.	..a..a..C..	2460
TY89-A:	C.....	.....a.	.....aga	C..t..gc.t	..a.....C.	..t..t..a..	164
CONSENSUS:	cgtsgaccca	ytrttccrmt	cwgcdctcmr	bgtsttcatg	tggytggaag	araaygggat	2520
CEF94-A:	..g.....	..C.a....aa.	..t..a...ag	..t..g.....	..C.....	..g..t.....	2520
D6948-A:	..g.....	..C.g....aa.	..t..g...ag	..t..g.....	..C.....	..g..t.....	2520
TY89-A:	..C.....	..t.g....gc.	..a..t...ca	..g..C.....	..t.....	..a..C.....	224



**FIG. 2A (Contd.)**

CONSENSUS:	tgtracygay	atggcyaaact	tcgcmctcag	cgaccccaac	gcmcaymgga	tgmrnaat	2580
CEF94-A:	...g..t..C	...C....	...a....	...C....	...C..tc...	...Cga.....	2580
D6948-A:	...g..t..t	...C....	...a....	...C....	...C..tc...	...Cgc.....	2580
TY89-A:	...a..C..C	...t....	...C....	...C....	...a..ca...	...aaa.....	284
CONSENSUS:	ychhgcaaay	gcwccmcarg	cmggmagcaa	gtcgcaragr	gccaaagtayg	gsacrgcwgg	2640
CEF94-A:	t..t....C	..a..a..a	..a..C....	...a..g	...C....	...g..a..a..	2640
D6948-A:	t..C....C	..a..a..a	..a..C....	...a..a	...C....	...g..a..a..	2640
TY89-A:	C..a....t	..t..C..g	..C..a....	...g..g	...C....	...g..t..	344
CONSENSUS:	ctacggagtg	gaggcymgrg	gccccacdcc	agargargca	cagagggara	aagacacacg	2700
CEF94-A:	.....	...tc.g	...a....	...g..a..	...a....	.....	2700
D6948-A:	.....	...cc.g	...t....	...g..a..	...a....	.....	2700
TY89-A:	.....	...ta.a	...g..	...a..g..	...g....	.....	404
CONSENSUS:	gatctcmaag	aagatggara	cbatgggcat	ctacttygca	acaccrgaat	gggtagcact	2760
CEF94-A:	...a....	...g....	..C....	...t....	...a....	.....	2760
D6948-A:	...a....	...g....	..t....	...t....	...a....	.....	2760
TY89-A:	...C....	...a....	..g....	...C....	...g....	.....	464
CONSENSUS:	caaygggcac	cgrggsccaa	gccccggcca	gctvaagtac	tggcaraaca	camgagaaat	2820
CEF94-A:	...t....	..a..g....	...C....	...a....	...g....	...C....	2820
D6948-A:	...t....	..g..g....	...C....	...g....	...g....	...C....	2820
TY89-A:	...C....	..a..C....	...C....	...C....	...a....	...a....	524
CONSENSUS:	accdgahccm	aacgaggact	aycyagacta	ygtgcaygcr	gagaagagcc	ggttggcrtc	2880
CEF94-A:	...g..C..a	.....	..t.t....	..C....t..a	.....	...a....	2880
D6948-A:	...t..t..a	.....	..C.t....	..C....t..a	.....	...a....	2880
TY89-A:	...a..a..C	.....	..C.C....	..t....C..g	.....	...g....	584
CONSENSUS:	agaagaacar	rtcyytaagg	cagcyacgtc	gatctacggg	gctccaggac	aggcwgarc	2940
CEF94-A:	.....a	..a..C....	...t....	...C....	...a....	...a..g..	2940
D6948-A:	.....a	..a..C....	...t....	...C....	...a....	...a..g..	2940
TY89-A:	.....g	..g..t....	...C....	...C....	...t....	...t..a..	644





**FIG. 2A (Contd.)**

CONSENSUS:	acccaagcy	ttcatagacg	aagtygccar	rgtctatgaa	atcaaccatg	grcgtggycc	3000
CEF94-A:	.....t	.....	....t....a	a.....	.....	.....c..	3000
D6948-A:	.....c	.....	....c....a	a.....	.....	.....c..	3000
TY89-A:	.....c	.....	....c....g	g.....	.....	.....t..	704
CONSENSUS:	maaccargar	cagatgaarg	ayctgctcyt	gactgcgatg	gagatgaagc	atcgcaatcc	3060
CEF94-A:	a.....a.a	.....a.	.t.....t.	.....	.....	.....	3060
D6948-A:	c.....a.a	.....a.	.t.....c.	.....	.....	.....	3060
TY89-A:	a.....g.g	.....g.	.c.....c.	.....	.....	.....	764
CONSENSUS:	caggcgggct	cyaccaaaagc	cmaagccaaa	acccaatgct	ccawcacaga	gacccctgg	3120
CEF94-A:	.....t	.....	.c.....	.....	.....a.....	.....	3120
D6948-A:	.....c	.....	.c.....	.....	.....a.....	.....	3120
TY89-A:	.....c	.....	.a.....	.....	.....t.....	.....	824
CONSENSUS:	wcggctgggc	cgctggatca	ggrcbgtctc	tgaygaggac	ytkgagtga	gywcctggga	3180
CEF94-A:	t.....	.....	..a.c....	...t.....	c.t.....	..ta.....	3180
D6948-A:	t.....	.....	..g.t....	...t.....	c.t.....	..ct.....	3180
TY89-A:	a.....	.....	..a.g....	...c.....	t.g.....	..ct.....	884
CONSENSUS:	gtctcccgac	accaccgcg	caggygtgga	caccaattmr	kmmhtaswrn	atycsaaatt	3240
CEF94-A:	.....	.....	....t....	.....cg	gact..caac	..c.c.....	3240
D6948-A:	.....	.....	....c....	.....cg	gcca..caac	..c.c.....	3240
TY89-A:	.....	.....	....t....	.....aa	tcac..gtga	..t.g.....	944
CONSENSUS:	ggatccgttc	gcgggtcccc					3260
CEF94-A:	.....	.....					3260
D6948-A:	.....	.....					3260
TY89-A:	.....	.....					964